



# ENTERED

PCT10

#  
4

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,192

DATE: 02/27/2002

TIME: 13:11:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272002\J049192.raw

```

4 <110> APPLICANT: Colau, Brigitte Desiree Alberte
5     Denamur, Françoise
6     Knott, Isabelle
7     Poliszczak, Annick
8     Thiry, Georges
9     Vande Velde, Vincent
11 <120> TITLE OF INVENTION: Vaccine
14 <130> FILE REFERENCE: B45194
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/049,192
C--> 17 <141> CURRENT FILING DATE: 2002-02-06
19 <150> PRIOR APPLICATION NUMBER: GB 9919468.0
20 <151> PRIOR FILING DATE: 1999-08-15
22 <150> PRIOR APPLICATION NUMBER: GB 9927336.9
23 <151> PRIOR FILING DATE: 1999-11-18
25 <160> NUMBER OF SEQ ID NOS: 34
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 2350
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapien
34 <400> SEQUENCE: 1
35 atggttcac tcatttatag acaacttctc actaattcat attcagtaga tttacatgat 60
36 gaaatagagc aaattggatc agaaaaaact cagaatgtaa ctataaatcc ggggtccattt 120
37 gcacagacta gatatgctcc agtcaattgg gatcatggag agataaatga ttcgactaca 180
38 gtagaaccaa ttttagatgg tccttatcag ccaactacat ttactccacc taatgattat 240
39 tggatactta ttaattcaaa tacaatgga gtagtatatg aaagtacaaa taatagtac 300
40 ttttgactg cagtcgttgc tattgaaccg cacgtcaacc cagtagatag acaatatatg 360
41 atatttggtg aaagcaagca atttaattgt agtaacgatt caaataaatg gaagttttta 420
42 gaaatgttta gaagcagtag tcaaatgaa ttttataata gacgtacatt aacttctgat 480
43 accagacttg taggaatatt taaatatggt ggaagagtat ggacatttca tgggtgaaaca 540
44 ccgagagcta ctactgacag ttcaagtact gcaaatttaa ataatatatc aattacaatt 600
45 cattcagaat tttacattat tccaaggtec caggaatcta aatgtaatga atatattaat 660
46 aatggtctgc caccaattca aaatactaga aatgtagttc cattgccatt atcatctaga 720
47 tcgatacagt ataagagagc acaagttaat gaagacatta tagtttcaaa aacttcatta 780
48 tggaaagaaa tgcagtataa tagggatatt ataattagat ttaaatttgg taatagtatt 840
49 gtaaagatgg gaggactagg ttataaatgg tctgaaatat catataaggc agcaaattat 900
50 caatataatt acttacgtga cgggtgaacaa gtaaccgcac acaccacttg ttcagtaaat 960
51 ggagtgaaca atttttagcta taatggaggg tttctaccca ctgatttttg tatttcaagg 1020
52 tatgaagtta ttaaagagaa ttcttatgta tatgtagact attgggatga ttcaaaagca 1080
53 tttagaaata tggatatatg tagatcatta gcagctaatt taaattcagt gaaatgtaca 1140
54 ggtggaagtt attatttcag tataaccagta ggtgcatggc cagtaatgaa tgggtggcgt 1200
55 gtttcgttgc attttgccgg agttacatta tccacgcaat ttactgattt tgtatcatta 1260
56 aattcactac gatttagatt tagtttgaca gttgatgaac cacttttctc aatactgaga 1320

```

## RAW SEQUENCE LISTING

DATE: 02/27/2002

PATENT APPLICATION: US/10/049,192

TIME: 13:11:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272002\J049192.raw

```

57 acacgtacag tgaatttcta tggattacca gccgctaata caaataatgg aaatgaatac 1380
58 tacgaaatat caggaagggt ttacttcatt tcttttagtt caactaatga tgattatcag 1440
59 actccaatta tgaattcagt gacggtaaga caagatttag agcgccaact tactgattta 1500
60 cgagaagaat ttaactcatt gtcacaagaa atagctatgg cacaattgat tgatttagca 1560
61 ctgttgccct tagatatgtt ttccatgttt tcaggaatta aaagtacaat tgatttaact 1620
62 aaatcaatgg cgactagtgt aatgaagaaa tttagaaaaa caaaattagc tacatcaatt 1680
63 tcagaaatga ctaattcatt gtcagatgct gcttcacatg catcaagaaa cgtttctatt 1740
64 agatcgaatt tatctgcgat ttcaaattgg actaatgttt caaatgatgt gtcaaacgta 1800
65 actaattcat tgaacgatat ttcaacacaa acatctacaa ttagtaagaa acttagatta 1860
66 aaagaaatga ttactcaaac tgaaggaatg agctttgacg acatttcagc agctgtacta 1920
67 aaaacaaaaa tagatatgtc tactcaaatt ggaaaaataa ctttacctga tatagttaca 1980
68 gaagcatctg agaaatttat tccaaaacga tcatatcgaa tattaagga tgatgaagta 2040
69 atggaaatta atactgaagg aaaattcttt gcatacaaaa ttaatacatt tgatgaagtg 2100
70 ccattcgatg taaataaatt cgctgaacta gtaacagatt ctccagttat atcagcgata 2160
71 atcgatttta agacattgaa aaattttaat gataattatg gaatcactcg tacagaagcg 2220
72 ttaaaattta ttaaatcgaa tccaaatatg ttacgtaatt tcattaatca aaataatcca 2280
73 attataagga atagaattga acagttaata ctacaatgta aattgtgaga acgctattga 2340
74 ggatgtgacc 2350

```

76 &lt;210&gt; SEQ ID NO: 2

77 &lt;211&gt; LENGTH: 1009

78 &lt;212&gt; TYPE: DNA

79 &lt;213&gt; ORGANISM: Homo sapien

81 &lt;400&gt; SEQUENCE: 2

```

82 atgtatggct ttgaatatac cacaattcta atctttctga tatcaattat tctactcaac 60
83 tatatattaa aatcagtaac tcgaataatg gactacatta tatatagatc tttgttgatt 120
84 tatgtagcat tatttgcctt gacaagagct cagaattatg ggcttaactt accaataaca 180
85 ggatcaatgg acactgtata cgctaactct actcaagaag gaatatttct aacatccaca 240
86 ttatgtttgt attatccaac tgaagcaagt actcaaatta atgatggtga atggaaagac 300
87 tcattgtcac aaatgtttct cacaaaagggt tggccaacag gatcagtcta ttttaaagag 360
88 tattcaagta ttgttgattt ttctgtcgat ccacaattat attgtgatta taacttagta 420
89 ctaatgaaat atgatcaaaa tcttgaatta gatatgtcag agttagctga tttaatattg 480
90 aatgaatggt tatgtaatcc aatggatata acatttatatt attatcaaca atcgggagaa 540
91 tcaaataagt ggatatcaat gggatcatca tgtactgtga aagtgtgtcc actgaatacg 600
92 caaatgttag gaatagggtg tcaaacaaca aatgtagact cgtttgaaat ggttgctgag 660
93 aatgagaaat tagctatagt ggatgtcggt gatgggataa atcataaaat aaatttgaca 720
94 actacgacat gtactattcg aaattgtaag aagttagggt caagagagaa tgtagctgta 780
95 atacaagttg gtggtctctaa tgtattagac ataacagcag atccaacgac taatccacaa 840
96 actgagagaa tgatgagagt gaattggaaa aaatggtggc aagtatttta tactatagta 900
97 gattatatta accaaatcgt gcaggtaatg tccaaaagat caagatcatt aaattctgca 960
98 gctttttatt atagagtata gatatatctt agattagatc gatgtgacc 1009

```

100 &lt;210&gt; SEQ ID NO: 3

101 &lt;211&gt; LENGTH: 28

102 &lt;212&gt; TYPE: DNA

103 &lt;213&gt; ORGANISM: Artificial Sequence

105 &lt;220&gt; FEATURE:

106 &lt;223&gt; OTHER INFORMATION: Oligonucleotide

108 &lt;400&gt; SEQUENCE: 3

109 ggcttttaaaa gagagaattt ccgtctgg

28

111 &lt;210&gt; SEQ ID NO: 4

## RAW SEQUENCE LISTING

DATE: 02/27/2002

PATENT APPLICATION: US/10/049,192

TIME: 13:11:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272002\J049192.raw

```

112 <211> LENGTH: 25
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Oligonucleotide
119 <400> SEQUENCE: 4
120 ggtagctcc ttttaatgta tggta 25
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 27
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Oligonucleotide
130 <400> SEQUENCE: 5
131 ggtcacatcg aacaattcta atctaag 27
133 <210> SEQ ID NO: 6
134 <211> LENGTH: 22
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Oligonucleotide
141 <400> SEQUENCE: 6
142 caagtactca aatcaatgat gg 22
144 <210> SEQ ID NO: 7
145 <211> LENGTH: 23
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Oligonucleotide
152 <400> SEQUENCE: 7
153 tggtgatttt tctgtcgatc cac 23
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 32
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Oligonucleotide
163 <400> SEQUENCE: 8
164 ggttgctgag aatgagaaat tagctatagt gg 32
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 32
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Oligonucleotide
174 <400> SEQUENCE: 9
175 ccactatagc taatttctca ttctcagcaa cc 32
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 22

```

## RAW SEQUENCE LISTING

DATE: 02/27/2002

PATENT APPLICATION: US/10/049,192

TIME: 13:11:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272002\J049192.raw

```

179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Oligonucleotide
185 <400> SEQUENCE: 10
186 tggcttcgcc attttataga ca 22
188 <210> SEQ ID NO: 11
189 <211> LENGTH: 20
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Oligonucleotide
196 <400> SEQUENCE: 11
197 atttcggacc atttataacc 20
199 <210> SEQ ID NO: 12
200 <211> LENGTH: 22
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Oligonucleotide
207 <400> SEQUENCE: 12
208 tggcttcact catttataga ca 22
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 23
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Oligonucleotide
218 <400> SEQUENCE: 13
219 atttcagacc atttataacc tag 23
221 <210> SEQ ID NO: 14
222 <211> LENGTH: 29
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Oligonucleotide
229 <400> SEQUENCE: 14
230 ggagtagtat atgaaagtac aaataatag, 29
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 29
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Oligonucleotide
240 <400> SEQUENCE: 15
241 ctattatttg tactttcata tactactcc 29
243 <210> SEQ ID NO: 16
244 <211> LENGTH: 25
245 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 02/27/2002

PATENT APPLICATION: US/10/049,192

TIME: 13:11:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272002\J049192.raw

```

246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Oligonucleotide
251 <400> SEQUENCE: 16
252 tcgatacagt ataagagagc acaag 25
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 27
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Oligonucleotide
262 <400> SEQUENCE: 17
263 ttcattaact tgtgctctct tatactg 27
265 <210> SEQ ID NO: 18
266 <211> LENGTH: 22
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Oligonucleotide
273 <400> SEQUENCE: 18
274 gtatatgtag actattggga tg 22
276 <210> SEQ ID NO: 19
277 <211> LENGTH: 22
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Oligonucleotide
284 <400> SEQUENCE: 19
285 catcccaata gtctacatat ac 22
287 <210> SEQ ID NO: 20
288 <211> LENGTH: 23
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Oligonucleotide
295 <400> SEQUENCE: 20
296 tgtaactccg gcaaaatgca acg 23
298 <210> SEQ ID NO: 21
299 <211> LENGTH: 23
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Oligonucleotide
306 <400> SEQUENCE: 21
307 cgttgcattt tgccggagtt aca 23
309 <210> SEQ ID NO: 22
310 <211> LENGTH: 23
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence

```

VERIFICATION SUMMARY

DATE: 02/27/2002

PATENT APPLICATION: US/10/049,192

TIME: 13:11:18

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272002\J049192.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date